## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Chuen Rong Leu et al.

Assignee:

Bridge Semiconductor Corporation

Title:

METHOD OF MAKING A SEMICONDUCTOR CHIP

ASSEMBLY WITH AN EMBEDDED METAL PILLAR

Serial No.:

Unknown

Filed:

Herewith

Examiner:

Unknown

Group Art Unit:

Unknown

Atty. Docket No.:

BDG024-1

COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56 and §§ 1.97-1.98, Applicant hereby provides the enclosed Form PTO-1449.

Copies of the documents on the attached Form PTO-1449 are not enclosed because they were previously submitted to or cited by the U.S. Patent Office in U.S. Application Serial No. 10/714,794 filed November 17, 2003, U.S. Application Serial No. 10/235,331 filed September 5, 2002, U.S. Application Serial No. 09/939,140 filed June 11, 2001, U.S. Application Serial No. 09/878,626 filed June 11, 2001 and/or U.S. Application Serial No. 09/687,619 filed October 13, 2000.

The above-identified application is a continuation of the '794 application, which is a continuation-in-part of the '331 application, which is a divisional of the '140 application, which is a continuation-in-part of the '626 application, which is a continuation-in-part of the '619 application. Therefore, the documents need not be resubmitted in order to be considered by the Examiner. See M.P.E.P § 609.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, an admission that any of these documents, alone or in any combination, is considered to be material to patentability, an admission that any of these documents is prior art as to the above-identified application, or an admission against interest in any manner.

Respectfully submitted,

David M. Sigmond

Attorney for Applicant

Reg. No. 34,013

(303) 554-8371

(303) 554-8667 (fax)

							1	t 1 of
Form PTO-1					_	cket No.	Serial	No.
J.S. Depai	ctment	of Commerce,	Patent and	Trademark Office	BDG024-			
]		MATION DISCI			Applica	nt		
	(Use	several shee	ts if necess	sary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	Art Un
	-		v.s.	Patent Documents				<u></u>
Examiner		Document Number	Date	Name	Class	Subclass	Filing If Appr	
	AA	4,955,523	08/1992	Calomagno et al.	228	179	II Appl	001140
	AA	4,970,571	11/1990	Yamakawa et al.	357	71		
	AC	4,984,358	01/1991	Nelson	29	830		
	AA	5,074,947	12/1991	Estes et al.	156	307.3		
	AE	5,106,461	04/1992	Volfson et al.	205	125		
	AF	5,116,463	05/1992	Lin et al.	156	653		
	AG	5,137,845	08/1992	Lochon et al.	437	183		
	AH	5,167,992	12/1992	Lin et al.	427	437		
	AI	5,196,371	03/1993	Kulesza et al.	437	183		
	AJ	5,209,817	05/1993	Ahmad et al.	156	643		· · · · · · · · · · · · · · · · · · ·
	AK	5,237,130	08/1993	Kulesza et al.	174	260		
	AL	5,260,234	11/1993	Long	437	203		
	AM	5,261,593	11/1993	Casson et al.	228	180.22		
			Foreig	n Patent Documents	<u> </u>			
							Trans	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN	EP 0 718 882 A1	06/1996	European Patent Office	H01L	23/057		
	AO	WO 97/38563	10/1997	WIPO	но5к	1/03		
	0	ther Art (Incl	uding Autho	r, Title, Date, Pe	rtinent	Pages, Etc	.)	.1
	AP	Markstein et Electronic P	al., "Conti ackaging & I	rolling the Variab Production, Februa	les in S ry 1997,	tencil Prir pp. 48-56.	ting,"	
	AQ	Elenius, "Chocontractor single 73.	oosing a Fli hould look i	ip Chip Bumping Su For," Advanced Pac	pplier - kaging,	Technology March/April	an IC P	ackage
xaminer	·	•	Date Consid	dered				

Florer PEO 1	440				7.4 D.			2 of
Form PTO-1		5.0			_	cket No.	Serial	No.
			-	Trademark Office	BDG024-		<u></u>	
נ		MATION DISC			Applica			
	(USE	several shee	ts if necess	sary)		ong Leu et	al.	
					Filing	Date	Group A	rt Uni
	-		U.S.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
	AA	5,275,330	01/1994	Issacs et al.	228	180.2		
	AB	5,284,796	02/1994	Nakanishi et al.	437	183		
	AC	5,293,067	03/1994	Thompson et al.	257	668		
	AD	5,327,010	07/1994	Uenaka et al.	257	689		
-	AF	5,334,804	01/1994	Love et al.	174	267		
	AF	5,346,750	09/1994	Hatakeyama et al.	428	209		<del></del>
	AG	5,355,283	10/1994	Marrs et al.	361	760		
	AH	5,358,621	10/1994	Oyama	205	123		
	AI	5,397,921	03/1995	Karnezos	257	779		
	AJ	5,407,864	04/1995	Kim	437	203		
	AK	5,424,245	06/1995	Gurtler et al.	437	183		
	AL	5,438,477	08/1995	Pasch	361	689		
	AM	5,439,162	08/1995	George et al.	228	180.22		
· · · · · · · · · · · · · · · · · · ·	· ·		Foreig	n Patent Documents	,			
							Trans	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN	WO 99/57762	11/1999	WIPO	H01L	23/48		
	AO							
	0	ther Art (Incl	uding Author	r, Title, Date, Pe	rtinent	Pages, Etc	.)	
	AP	Erickson, "W Production,	afer Bumping July 1998, p	g: The Missing Lind pp. 43-46.	k for DC	A," Electro	onic Pack	aging
	AQ	Kuchenmeiste Chemical Met pages.	r et al., "F allization,"	ilm Chip Intercon	nection 0-7803-	Systems Pre 4526-6/98,	epared By June 199	Wet 8, 5
xaminer			Date Consid	lered		· · · · · · · · · · · · · · · · ·		
*EXAMINER:	Tni+	ial if moform	nge geneda	ed, whether or not				
		-~+CTCTG1	TOE COURTURE	ed, whether or not	. CITATIO	2H 18 10 CO	TITOTMANCE	with

Form PTO-14	149				Atty Do	cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and	Trademark Office	BDG024-	1		
I	NFORE	AATION DISC	LOSURE STA	TEMENT	Applica	nt		
	(Use	several shee	ts if necess	ary)	Chuen R	ong Leu et	al.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Filing	Date	Group A	rt Un:
	·			Patent Documents				
	<u> </u>	Τ	0.5.	Patent Documents			1	
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing 1	
	AA	5,447,886	09/1995	Rai	437	183		
	AA	5,454,161	10/1995	Beilin et al.	29	852		
	AC	5,454,928	10/1995	Rogers et al.	205	125		
	AD	5,475,236	12/1995	Yoshizaki	257	67		
	AE	5,477,933	12/1995	Nguyen	174	262		
	AF	5,478,007	12/1995	Marrs	228	180.22		
	AG	5,483,421	01/1996	Gedney et al.	361	771		
	AH	5,484,647	01/1996	Nakatani et al.	428	209		
	AI	5,487,218	01/1996	Bhatt et al.	29	852		, .
	AJ	5,489,804	02/1996	Pasch	257	778		
	AK	5,493,096	02/1996	Koh	219	121.71		
	AL	5,508,229	06/1996	Baker	437	183		
	AM	5,525,065	06/1996	Sobhani	439	67		
			Foreign	n Patent Documents		I		
							Trans:	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	01	ther Art (Inc.	luding Author	r, Title, Date, Pe	rtinent	Pages, Etc	.)	*
	AP			GGA Assembly Relial 5, No. 6, September			20-23.	
	AQ			No. 09/465,024, fi mbly With Solder V		ember 16, 1	.999, ent	itled
 Examiner		<u> </u>	Date Consid	lered				

Form PTO-1	rm PTO-1449					cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and ?	rademark Office	BDG024-	1		ĺ
I	NFORE	ATION DISCI	LOSURE STA	PEMENT	Applica	nt	· · · · · · · · · · · · · · · · · · ·	
	(Use	several shee	ts if necess	ary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	rt Unit
			U.S.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
IIIICIAI	AA		07/1996	Yamaji	257	737	TI Apple	priace
		5,536,973	· · · · · · · · · · · · · · · · · · ·		<del></del>			
	AB	5,542,601	08/1996	Fallon et al.	228	119		
	AC	5,547,740	08/1996	Higdon et al.	428	209		
	AD	5,556,810	09/1996	Fujitsu	437	209		
	AE	5,556,814	09/1996	Inoue et al.	437	230		
	AF	5,564,181	10/1996	Dineen et al.	29	841		
	AG	5,572,069	11/1996	Schneider	257	690		
	АН	5,576,052	11/1996	Arledge et al.	427	98		
	AI	5,583,073	12/1996	Lin et al.	439	183		
	AJ	5,595,943	01/1997	Itabashi et al.	437	230		31
	AK	5,599,744	02/1997	Koh et al.	437	195		
	AL	5,611,140	03/1997	Kulesza et al.	29	832		
	AM	5,611,884	03/1997	Bearinger et al.	156	325		
			Foreign	1 Patent Documents				***************************************
					,,		Transl	ation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	01	ther Art (Incl	uding Author	r, Title, Date, Pe	rtinent	Pages, Etc.	. )	
	AP U.S. Application Serial No. 09/464,562, filed December 16, 1999, entitled "Bumpless Flip Chip Assembly With Strips And Via-Fill"							
	AQ			No. 09/464,561, f mbly With Strips-				itled
Examiner	l <sub>es</sub> ,		Date Consid	lered				
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy							

Form PTO-14	149				Atty Do	cket No.	Serial 1	No.
U.S. Depar	tment	of Commerce,	Patent and T	Trademark Office	BDG024-	1		
I	NFORM	ATION DISCI	OSURE STAT	TEMENT	Applica	nt		-
	(Use	several sheet	s if necess	ary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	ct Unit
			U.S.	Patent Documents				
*Examiner		Document					Filing D	
Initial		Number	Date	Name	Class	Subclass	If Appro	priate
	AA	5,613,296	03/1997	Kurino et al.	29	852		
	AB	5,614,114	03/1997	Owen	219	121.66		
	AC	5,615,477	04/1997	Sweitzer	29	840		
	AD	5,619,791	04/1997	Lambrecht Jr. et al.	29	852		
	AE	5,627,405	05/1997	Chillara	257	840		
	AF	5,627,405	05/1997	Pace	257	700		
	AG	5,633,204	05/1997	Tago et al.	438	614		
	AH	5,637,920	05/1997	Loo	257	700		
	AI	5,641,113	06/1997	Somaki et al.	228	180.22		
	AJ	5,645,628	07/1997	Endo et al.	106	1.23		
	AK	5,646,067	07/1997	Gaul	437	180		
	AL	5,648,686	07/1997	Hirano et al.	257	778		
	AM	5,654,584	08/1997	Fujitsu	257	840		
			Foreign	n Patent Documents	1			
							Transl	ation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	01	ther Art (Incl	uding Author	r, Title, Date, Pe	rtinent	Pages, Etc	.)	
	AQ							-
	AQ							
Examiner			Date Consid	lered				
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to Applicant.							

Form PTO-1	449	-			Atty Do	cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and '	Trademark Office	BDG024-	1		
]	NFOR	MATION DISC	LOSURE STA	TEMENT	Applica	nt	-	<del></del>
	(Use	several shee	ets if necess	sary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	rt Unit
			v.s.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
	AA	5,656,858	09/1997	Kondo et al.	257	737		
	AB	5,663,598	09/1997	Lake et al.	257	737		
	AE	5,665,652	09/1997	Shimizu	438	127		
	AH	5,666,008	09/1997	Tomita et al.	257	778		
	AE	5,669,545	03/1998	Pham et al.	228	1.1		
	AF	5,674,785	●9/1997	Akram et al.	438	217		
	AG	5,674,787	10/1997	Zhao et al.	437	230		
	AH	5,682,061	09/1997	Khandros et al.	257	666		
	AI	5,691,041	10/1997	Frankeny et al.	428	230		
	AJ	5,722,162	09/1997	Chou et al.	29	852		
	AK	5,723,369	09/1997	Barber	438	106		
	AL	5,731,223	03/1998	Padmanabhan	437	183		
	AM	5,736,456	03/1998	Akram	438	614		
		•	Foreig	n Patent Document:	<del></del>			
							Transl	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	0	ther Art (Inc	luding Autho	r, Title, Date, Pe	ertinent	Pages, Etc	.)	-
	AP							
	AQ							
Examiner	<u> </u>	1	Date Consid	dered			· · · · · ·	
MPEP 609;	Draw 1	ine through o	citation if n	ed, whether or no ot in conformance to Applicant.				with le copy

							T	
·Form PTO-1					Atty Do	cket No.	Serial	No.
U.S. Depar	rtment	of Commerce,	Patent and ?	Trademark Office	BDG024-	1	<u> </u>	
3		MATION DISC:			Applica	nt		
	(Use	several shee	ts if necess	(ary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	rt Unit
	<del></del>		U.S.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
	AA	5,739,585	06/1998	Akram et al.	257	698		
	AB	5,744,859	04/1998	Ouchida	257	668		
	AC	5,757,071	05/1998	Bhansali	257	697		
	AD	5,757,081	05/1998	Chang et al.	257	778		
	AE	5,764,486	06/1998	Pendse	361	774		
	AF	5,774,340	06/1998	Chang et al.	361	771		
	AG	5,789,271	06/1998	Akram	438	18		
	AH	5,798,285	08/1998	Bentlage et al.	438	108		
	AI	5,801,072	09/1998	Barber	438	107		
	AJ	5,801,447	09/1998	Hirano et al.	257	778		
	AK	5,803,340	09/1998	Yeh et al.	228	56.3		
	AL	5,804,771	09/1998	McMahon et al.	174	255		
	AM	5,808,360	09/1998	Akram	257	738		
			Foreig	n Patent Documents	3			
						,	Transl	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							***
	0	ther Art (Inc.	luding Autho	r, Title, Date, Pe	rtinent	Pages, Etc	.)	<u> </u>
	AQ							
<u> </u>	AQ					-	· · · · · · · · · · · · · · · · · · ·	
Examiner			Date Consid	lered				
	Draw l	ine through c	itation if n	ed, whether or not ot in conformance to Applicant.	citation	on is in co considered		with le copy

							T	
Form PTO-1					_	cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and !	Trademark Office	BDG024-	1		
I		MATION DISCI			Applica	nt		
	(Use	several shee	ts if necess	ary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	rt Unit
			v.s.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
	AA	5,811,879	09/1998	Akram	257	723		
	AB	5,817,541	10/1998	Averkiou et al.	438	107		
	AC	5,822,856	10/1998	Bhatt et al.	29	832		
	AD	5,834,844	11/1998	Akagawa et al.	257	734		-
	AE 5,861,666 01/1999 Bellaar 257 686							
	AF	5,863,816	11/1999	Cho	438	123		
	AG	5,870,289	02/1999	Tokuda et al.	361	779		
	АН	5,883,435	03/1999	Geffken et al.	257	758		
	AI	5,925,931	07/1999	Yamamoto	257	737		
	AJ	5,994,222	11/1999	Smith et al.	438	689		
	AK	6,012,224	01/2000	DiStefano et al.	29	840		
	AL	6,013,877	01/2000	Degani et al.	174	264		
	AM	6,018,196	01/2000	Noddin	257	777		
			Foreig	n Patent Documents	3			
							Transl	ation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	Of	ther Art (Inc)	uding Autho:	r, Title, Date, Pe	rtinent	Pages, Etc	.)	
	AP							
	AD							
Examiner Date Considered								
				· · · · · · · · · · · · · · · · · · ·				
*EXAMINER: MPEP 609; I	EXAMINER: Initial if reference considered, whether or not citation is in conformance with PEP 609; Draw line through citation if not in conformance and not considered. Include copy							

Form PTO-1	m PTO-1449				Atty Do	cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and T	Frademark Office	BDG024-	1		
I	NFOR	ATION DISCI	LOSURE STAT	rement	Applica	nt	<u> </u>	
	(Use	several shee	ts if necess	ary)	Chuen R	ong Leu et	al.	
					Filing	Date	Group A	rt Unit
			v.s.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing D	
	AD	6,020,561	02/2000	Ishida et al.	174	261		
	AB	6,037,665	03/2000	Miyazaki	257	773		
	AC	6,046,909	03/2000	Joy	361	748		
	AD	6,084,297	08/2000	Brooks et al.	257	698		
	AE	6,084,781	08/2000	Klein	361	771		
	AF	6,103,552	08/2000	Lin	438	113	-	
	AG	6,103,992	08/2000	Noddin	219	121.71		
	AH	6,127,204	10/2000	Isaacs et al.	438	106	-	
	AI							
	AJ							
	AK							
	AL							
	AM							
			Foreign	n Patent Documents				
							Transl	ation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	01	her Art (Incl	uding Author	r, Title, Date, Pe	rtinent	Pages, Etc	.)	
	AP							:
	AQ							
Examiner			Date Consid	lered				
*EXAMINER:	Init	ial if referer	nce consider	ed, whether or not	citatio	on is in co	nformance	with

Form PTO-1	449				Atty Doo	cket No.	Serial 1	No.
U.S. Depar	tment	of Commerce,	Patent and I	rademark Office	BDG024-1	L		
I	NFORM	ATION DISCI	OSURE STAT	CEMENT	Applicar	nt		
	(Use	several sheet	ts if necess	ary)	Chuen Ro	ong Leu et a	al.	
					Filing I	Date	Group A	rt Unit
	,							
			v.s.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing D If Appro	
	AA	4,442,967	04/1984	van de Pas et al.	228	159		
	AB	4,661,192	04/1987	McShane	156	292	,	
	AC	4,717,066	01/1988	Goldenberg et al.	228	179		
	AD	4,750,666	06/1988	Neugebauer et al.	228	160		
	AE	4,807,021	02/1989	Okumura	357	75		
	AF 4,925,083 05/1990 Farassat et al. 228 102							
	AG	4,937,653	05/1991	Blonder et al.	357	68		
	АН	5,014,111	05/1991	Tsuda et al.	357	68		
	AI	5,060,843	10/1991	Yasuzato et al.	228	179		
	AJ	5,090,119	02/1992	Tsuda et al.	29	843		
	AK	5,172,851	12/1992	Matsushita et al.	228	179		
	AL	5,294,038	03/1994	Nakano et al.	228	179.1		
	AM	5,364,004	11/1994	Davidson	228	1.1		
			Foreign	n Patent Document	s			
							Transl	ation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	01	ther Art (Inc)	luding Author	r, Title, Date, P	ertinent	Pages, Etc.	.)	
	AP					-		
					···			
	AQ							
Examiner Date Considered						N 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
*EXAMINER: MPEP 609; I	EXAMINER: Initial if reference considered, whether or not citation is in conformance with IPEP 609; Draw line through citation if not in conformance and not considered. Include copy							

							- Direct	11 01 1
·Form PTO-1	449				Atty Do	cket No.	Serial	No.
U.S. Depar	tment	of Commerce,	Patent and	Trademark Office	BDG024-3	L		
I	NFOR	MATION DISC	LOSURE STA	TEMENT	Applicar	nt		
	(Use	several shee	ts if necess	sary)	Chuen Ro	ong Leu et	al.	
					Filing I	Date	Group A	Art Unit
			U.S.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I	
	AA	5,485,949	01/1996	Tomura et al.	228	180.5		
	AB	5,686,353	11/1997	Yagi et al.	437	183		
, ,, ,, ,,	AC	5,813,115	09/1998	Misawa et al.	29	832		
	AD	6,017,812	01/2000	Yonezawa et al.	438	613		
	AE	6,088,236	07/2000	Tomura et al.	361	783		
	AE	6,159,770	12/2000	Tetaka et al.	438	112		
	AG							
	AH							
	AI							
	AJ					-41		·····
	AK							
	AL							
	AM							
	· · · · · ·	-A	Foreig	n Patent Document	s		<u></u>	
		· · · · · · · · · · · · · · · · · · ·					Trans	lation
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							<u> </u>
	0	ther Art (Inc	luding Autho	or, Title, Date, P	ertinent	Pages, Etc	:.)	.l
	AP							
	AQ			•				
Examiner	Examiner Date Considered							
*EXAMINER: MPEP 609;	Init Draw l	ial if refere	ence consider citation if r	red, whether or no	ot citati	on is in co	onformance	e with de copy

							<del></del>		
Form PTO-14	449				Atty Do	ket No.	Serial	No.	
U.S. Depar	tment	of Commerce,	Patent and T	rademark Office	BDG024-1	L			
I	NFORM	ATION DISCL	OSURE STAT	EMENT	Applicar	nt			
4	(Use	several sheet	s if necessa	ary)	Chuen Ro	ong Leu et	al.		
					Filing I	Date	Group A	rt Unit	
			U.S.	Patent Documents					
*Examiner		Document					Filing D	ate	
Initial		Number	Date	Name	Class	Subclass	If Appro		
	AA								
	Foreign Patent Documents								
		•				Transl	lation		
		Document	Date	Country	Class	Subclass	Yes	No	
	AA								
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AC U.S. Application Serial No. 09/120,408, filed July 22, 1998, entitled "Flip Chip Assembly With Via Interconnection"								
	AD		or Chip Asse	No. 09/643,212, mbly With Simulta	_				
	AE	"Semiconduct	or Chip Asse	No. 09/643,214, mbly with Simultanection Joint"	_				
	AF			No. 09/643,213, : ort Circuit For :					
	AG			No. 09/643,445, conductor Chip A		ust 22, 200	00, entit	led	
	АН			No. 09/665,928, mbly With Ball Bo				titled	
	AI		aking A Supp	No. 09/665,931, ort Circuit With bly"					
	<b>L</b> A	"Method Of M	aking A Semi	No. 09/677,207, conductor Chip As ore And After Ch	ssembly W	ith A Condu	•		
Examiner			Date Consid	lered					
*EXAMINER:	Tnit	ial if referen	ce consider	ed, whether or no	t citati	on is in co	nformance	with	

Form PTO-1449						Atty Docket No.		Serial No.			
U.S. Department of Commerce, Patent and Trademark Office						L					
INFORMATION DISCLOSURE STATEMENT						Applicant					
(Use several sheets if necessary)					Chuen Rong Leu et al.						
					Filing Date		Group Art Unit				
U.S. Patent Documents											
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I				
	AA										
Foreign Patent Documents											
·						Transl					
		Document	Date	Country	Class	Subclass	Yes	No			
	AB										
	Ot	ther Art (Incl	uding Author	r, Title, Date, P	ertinent	Pages, Etc	.)				
	AC	U.S. Application Serial No. 09/865,367, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Simultaneously Electroplated Contact Terminal and Connection Joint"									
	AD	U.S. Application Serial No. 09/864,555, filed May 24, 2001, entitled "Semiconductor Chip Assembly with Simultaneously Electrolessly Plated Contact Terminal and Connection Joint"									
	AE	U.S. Application Serial No. 09/864,773, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Ball Bond Connection Joint"									
Examiner			Date Considered								
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to Applicant.											

							Direct	14 01 14	
Form PTO-1449						Atty Docket No.		Serial No.	
U.S. Department of Commerce, Patent and Trademark Office						1			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)						Applicant Chuen Rong Leu et al.			
			U.S.	Patent Documents					
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I		
	AB	5,973,393	10/26/99	Chia et al.	257	693			
	AB	6,001,671	12/14/99	Fjelstad	438	112			
	AC	6,025,650	02/15/00	Tsuji et al.	257	786			
	AD	6,180,881	01/30/01	Isaak	174	52.4			
	AE	6,188,127	02/13/01	Senba et al.	257	686			
	AF	6,218,728	04/17/01	Kimura	257	693			
	AC	6,303,997	10/16/01	Lee	257	778			
	АН	6,483,718	11/19/02	Hashimoto	361	693			
	AI	6,504,241	01/07/03	Yanagida	257	686			
	AJ	6,608,371	08/19/03	Kurashima et al.	257	686			
	AK								
	AL			·					
	AM							, ,	
			Foreig	n Patent Document:	3				
		Translation							
		Document	Date	Country	Class	Subclass	Yes	No	
	AN								
	AO								
	0	ther Art (Inc	luding Autho	r, Title, Date, Pe	ertinent	Pages, Etc	.)		
	AP								
	AQ								
Examiner	Date Considered								
*EXAMINER:	Init	ial if refere	nce consider	ed, whether or no	t citati	on is in co	onformance	with	